

5 CLAIMS:

1. A synergistic herbal Oro-dental care composition comprising 20-30% by weight of powdered parts or extract of *Citrus karna*, 20-30 % by weight of powdered parts or extract of *Zanthoxylum armatum*, 20-30% by weight of powdered parts or extract of *Azadirachta indica*, 20-30% by weight of powdered parts or extract of *Oriza sativa* and optionally one or more additives.
2. A composition as claimed in claim 1, the dental care composition is used in the form of powder, paste, gel, dental pack, dental floss, mouthwash and chewing gum.
3. A composition as claimed in claim 2, the dental care composition is tooth powder.
4. A composition as claimed in claim 1, wherein *Citrus karna* used is in powder form or as an extract and as obtained from citrus karna fruit peel or leaf or flowers.
5. A composition as claimed in claim 1, wherein the *Zanthoxylum armatum* is used in powder form or as an extract and is obtained from flowers, leaves, roots or fruits of *Zanthoxylum armatum*.
6. A composition as claimed in claim 1, wherein *Azadirachta indica* used is in powder form or as an extract and as obtained from twigs, bark, seeds or leaves of *Azadirachta indica*.
7. A composition as claimed in claim 1, wherein *Oriza sativa* used is in the form of Carbon Black chared husk.
8. A composition as claimed in claim 1, wherein the additives added are selected from the group consisting aromatizing agent, flavoring agent, sweeteners, colorants, polishing material, organic acid, alcohol, essential oils, exert carminative, antiseptic and analgesic agent.
9. A composition as claimed in claim 8, wherein alcohol used is ethanol.
10. A composition as claimed in claim 8, wherein aromatizing agent used is mint.
11. A composition as claimed in claim 8, wherein mint used are peppermint or pericarpmint.
12. A composition as claimed in claim 8, wherein polishing material is abrasive particulate, having particle size up to 20 microns.

- 5 **13.** A composition as claimed in claim 8, wherein organic acid used is acetic acid.
- 14.** A composition as claimed in claim 8, wherein flavoring agent used are natural
 or artificials cinnamon-clove beads.
- 15.** A composition as claimed in claim 8, wherein flavoring agent used are
 selected form cinnamon-clove beads, citrus flavor such as orange and lemon
10 and vanilla.
- 16.** A composition as claimed in claim 1, is useful in treating discolored teeth,
 tonge, sorness of oral mucosa, stomatitis, ulcers, traumatic lesions of the
 mucus, chronic, recurrent cankers, plaque, halitos, gingivitics, dental
 extraction caries in teeth, gum, stomatitis, calculi, turtar formation, cankers, in
15 protecting oral mucus against lipid peroxidation due to formation of free
 radicals and against contaminates (ozone, cigarette, smoke) and for soothing,
 curative, anti-inflammatory effect on epithelial lesions and reducing pain
 produced by putting false teeth in place.
- 17.** A process for preparing a synergistic herbal oro dental care composition, said
20 process comprising the step of mixing 20-30% by weight of powdered parts or
 extract of Citrus karna, 20-30 % by weight of powdered parts or extract of
 Zanthoxylum armatum, 20-30% by weight of powdered parts or extract of
 Azadirachta indica, 20-30% by weight of powdered parts or extract of Oriza
 sativa and optionally one or more additives.
- 25 **18.** A process as claimed in claim 17, wherein powder form of the citrus karna or
 Zanthoxylum armatum or Azadirachta indica or Oriza sativa are obtained by
 drying leaves or rhizome or aerial parts of the plants and grinding them in
 powder form.
- 19.** A process as claimed in claim 17, wherein Citrus karna used is in powder form
30 and is obtained from citrus karna peel off.
- 20.** A process as claimed in claim 17, wherein the Zanthoxylum armatum is used
 in powder form and is obtained from flowers, leaves, roots or fruits of
 Zanthoxylum armatum.
- 21.** A process as claimed in claim 17, wherein Azadirachta indica used is in
35 powder form and obtained from twigs, bark or leaves of Azadirachta indica.
- 22.** A process as claimed in claim 17, wherein Oriza sativa used is in the form of
 Carbon Black chared husk.

- 5 23. A process as claimed in claim 17, wherein extracts of *citrus karna*, or
 Zanthoxylum armatum or *Azadirachta indica* or *Oriza sativa* are obtained by
 extracting powder parts of the same with the aqueous alcohol for 4 to 10 days
 under reduced pressure and at a temperature in the range of 40 to 60 °C.
- 10 24. A process as claimed in claim 23, wherein the ratio between the powdered
 plants & the aqueous alcohols is in the range of 1:8 to 1:15.
25. A process as claimed in claim 17, wherein the additives added are selected
 from the group comprising aromatizing agent, flavoring agent, sweeteners,
 colorants, polishing material and organic acid.
26. A process as claimed in claim 17, wherein aromatizing agent used is mint.
- 15 27. A process as claimed in claim 17, wherein mint used are peppermint or
 pericarpmint.
28. A process as claimed in claim 17, wherein polishing material is abrasive
 particulate, having particle size up to 20 microns.
29. A process as claimed in claim 17, wherein organic acid used is acetic acid.
- 20 30. A process as claimed in claim 17, wherein flavoring agent used are natural or
 artificial cinnamon-clove beads.
31. A process as claimed in claim 17, wherein flavoring agent used are selected
 form cinnamon-clove beads, citrus flavor such as orange and lemon and
 vanilla.
- 25 32. Use of oro-dental care composition comprising 20-30% by weight of
 powdered parts or extract of *Citrus karna*, 20-30 % by weight of powdered
 parts or extract of *Zanthoxylum armatum*, 20-30% by weight of powdered
 parts or extract of *Azadirachta indica*, 20-30% by weight of powdered parts or
 extract of *Oriza sativa* and optionally one or more additives for treating
 30 discolored teeth, tongue, soreness of oral mucosa, stomatitis, ulcers, traumatic
 lesions of the mucus, chronic, recurrent cankers, plaque, halitos, gingivitics,
 dental extraction caries in teeth, gum, stomatitis, calculi, turtar formation,
 cankers, in protecting oral mucus against lipid peroxidation due to formation
 of free radicals and against contaminates (ozone, cigarette, smoke) and for
 35 soothing, curative, anti-inflammatory effect on epithelial lesions and reducing
 pain produced by putting false teeth in place.

- 5 33. Use of oro-dental care composition as claimed in claim 32, wherein said composition is used in the form of powder, paste, gel, dental floss, mouthwash and chewing gum.
34. Use of oro-dental care composition as claimed in claim 32, wherein said composition is used as tooth powder.
- 10 35. Use of oro-dental care composition as claimed in claim 32, wherein the *Citrus karna* is used in powder form or as an extract and as obtained from citrus karna fruit peel or leaf or flowers.
36. Use of oro-dental care composition as claimed in claim 32, wherein the *Zanthoxylum armatum* is used in powder form or as an extract and is obtained
- 15 from flowers, leaves, roots or fruits of *Zanthoxylum armatum*.
37. Use of oro-dental care composition as claimed in claim 32, wherein *Azadirachta indica* used is in powder form or as an extract and as obtained from twigs, bark, seeds or leaves of *Azadirachta indica*.
38. Use of oro-dental care composition as claimed in claim 32, wherein *Oriza sativa* used is in the form of Carbon Black charred husk.
- 20 39. Use of oro-dental care composition as claimed in claim 32, wherein the additives added are selected from the group consisting aromatizing agent, flavoring agent, sweeteners, colorants, polishing material, organic acid, alcohol, essential oils, exert carminative, antiseptic and analgesic agent.
- 25 40. Use of oro-dental care composition as claimed in claim 39, wherein alcohol used is ethanol.
41. Use of oro-dental care composition as claimed in claim 39, wherein aromatizing agent used is mint.
42. Use of oro-dental care composition as claimed in claim 39, wherein mint used
- 30 are peppermint or pericarpmint.
43. Use of oro-dental care composition as claimed in claim 39, wherein polishing material is abrasive particulate, having particle size up to 20 microns.
44. Use of oro-dental care composition as claimed in claim 39, wherein organic acid used is acetic acid.
- 35 45. Use of oro-dental care composition as claimed in claim 39, wherein flavoring agent used are natural or artificials cinnamon-clove beads.

- 5 **46.** Use of oro-dental care composition as claimed in claim 39, wherein flavoring agent used are selected from cinnamon-clove beads, citrus flavor such as orange and lemon and vanilla.